

Title (en)
FLOW CONTROL VALVE ARRANGEMENT

Publication
EP 0047885 B1 19840208 (DE)

Application
EP 81106571 A 19810825

Priority
DE 3034377 A 19800912

Abstract (en)
[origin: US4365645A] A three-way or three-port flow-regulating valve for use in a hydraulic system comprises a two-position two-ported throttle valve inserted between an inflow conduit and an outflow conduit and a pressure-relief valve connected to the inflow conduit at an upstream point thereof and at a downstream point proximate to an intake port of the throttle valve. A servovalve is connected in parallel to the throttle valve via small-diameter pressure-transmission channels extending to the intake port and to an output port of the throttle valve. Upon a jump in the pressurization of the inflow conduit, for example due to the activation of an auxiliary pump, the pressure-relief valve opens; it closes again only upon an equalization of the pressure throughout the inflow conduit. The servovalve has a biasing spring which exerts a force determining the maximum pressure drop across the throttle valve.

IPC 1-7
F04B 49/08

IPC 8 full level
F16K 17/30 (2006.01); **F04B 49/08** (2006.01); **F15B 11/05** (2006.01)

CPC (source: EP US)
F04B 49/08 (2013.01 - EP US); **Y10T 137/2589** (2015.04 - EP US); **Y10T 137/2594** (2015.04 - EP US)

Cited by
EP0428374A1

Designated contracting state (EPC)
AT BE CH FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0047885 A1 19820324; **EP 0047885 B1 19840208**; AT E6168 T1 19840215; DE 3034377 A1 19820422; DE 3034377 C2 19890302; JP H0423122 B2 19920421; JP S5779369 A 19820518; US 4365645 A 19821228

DOCDB simple family (application)
EP 81106571 A 19810825; AT 81106571 T 19810825; DE 3034377 A 19800912; JP 14372281 A 19810911; US 29399081 A 19810818